

FIGURE 1

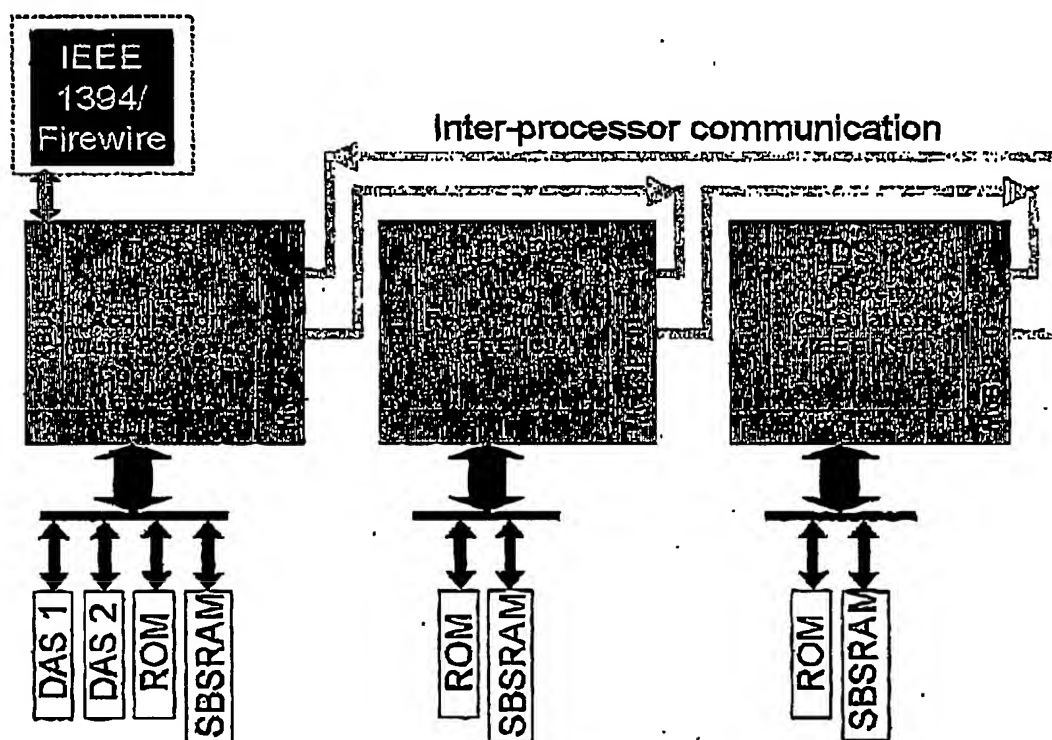


FIGURE 2

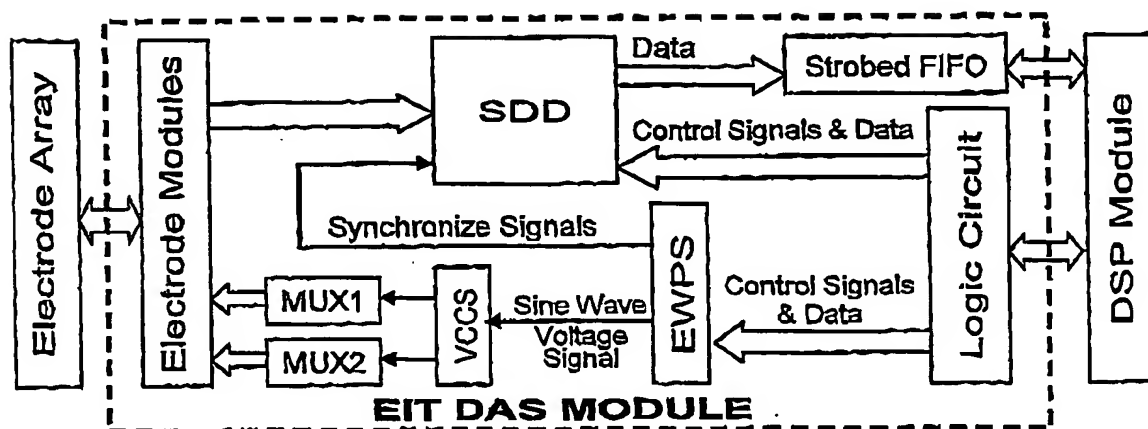
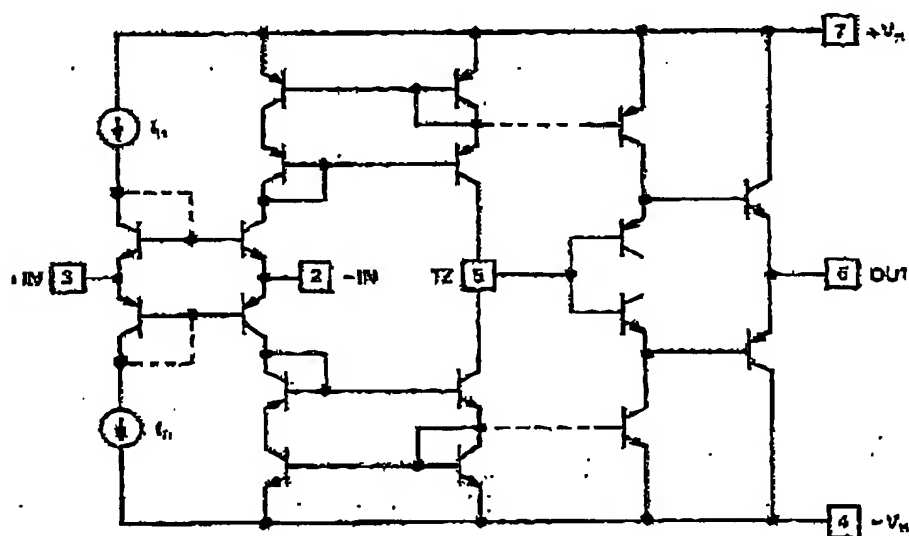
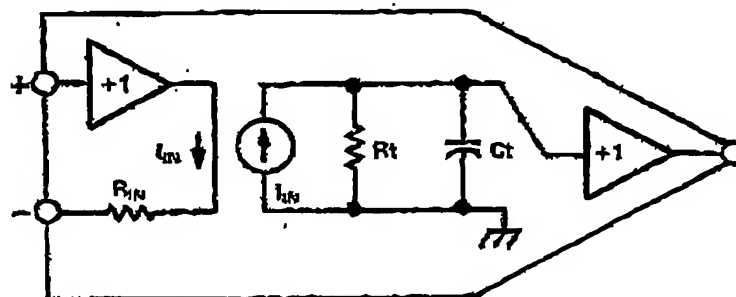


FIGURE 3



(a) Simplified Schematic



(b) Equivalent Schematic

FIGURE 4

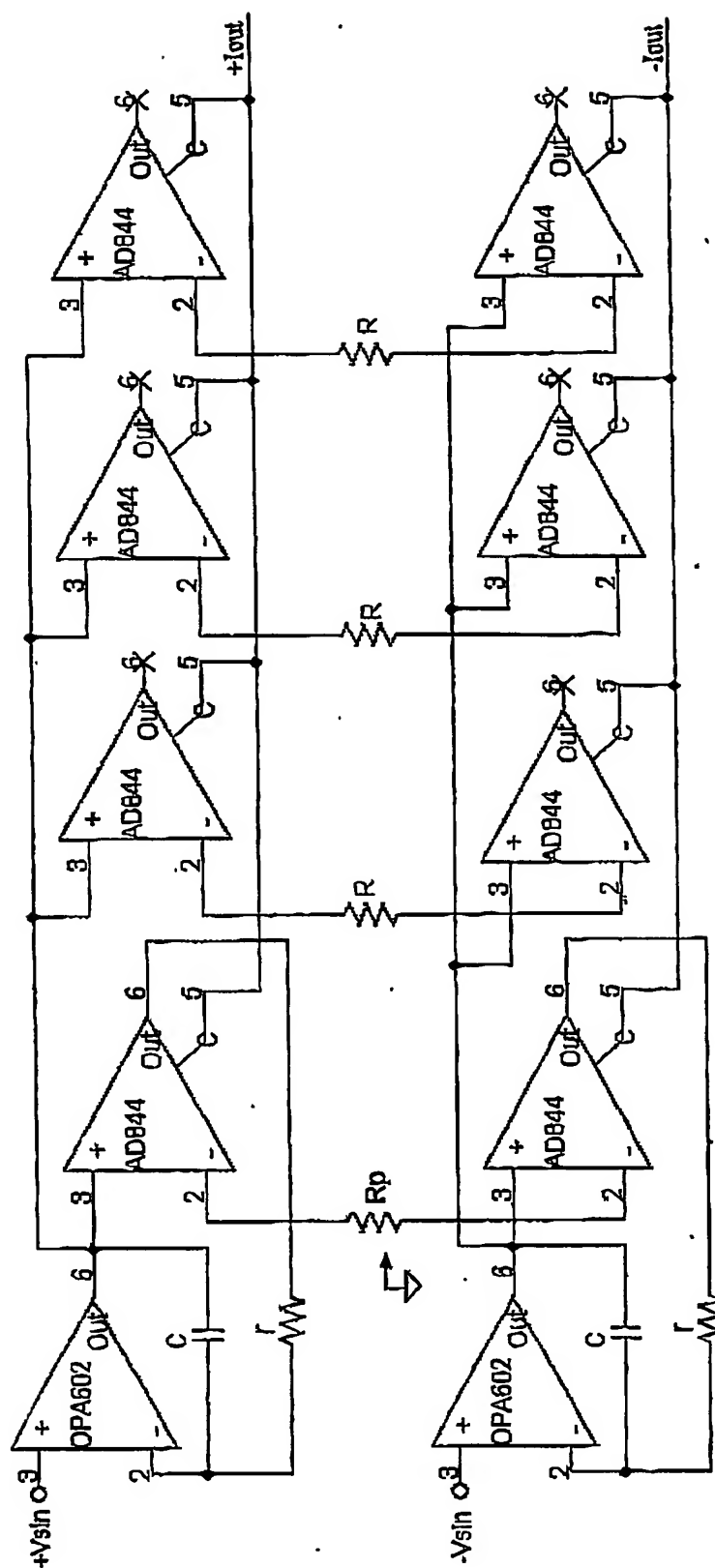


FIGURE 5

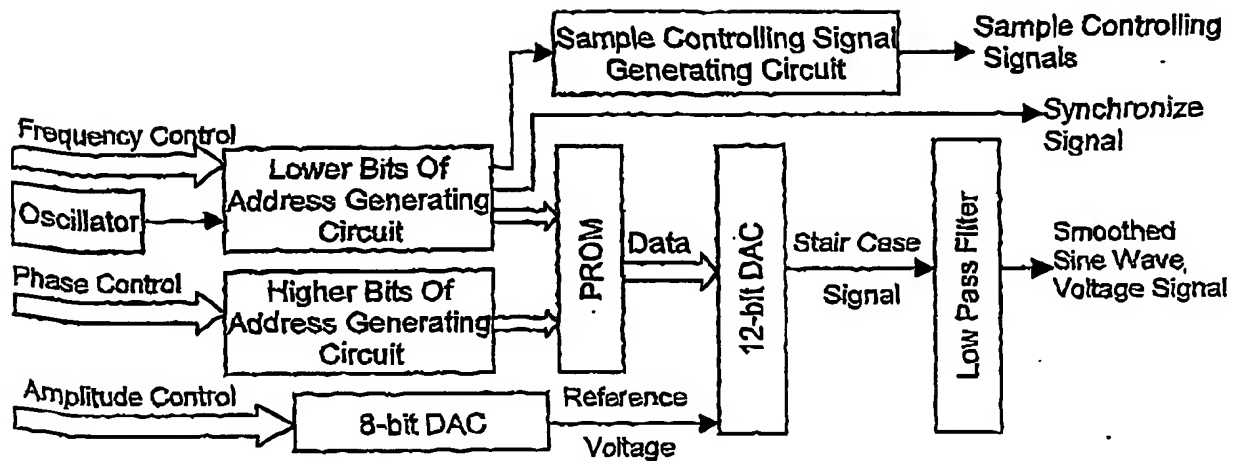


FIGURE 6

Equal width pulse sine-wave

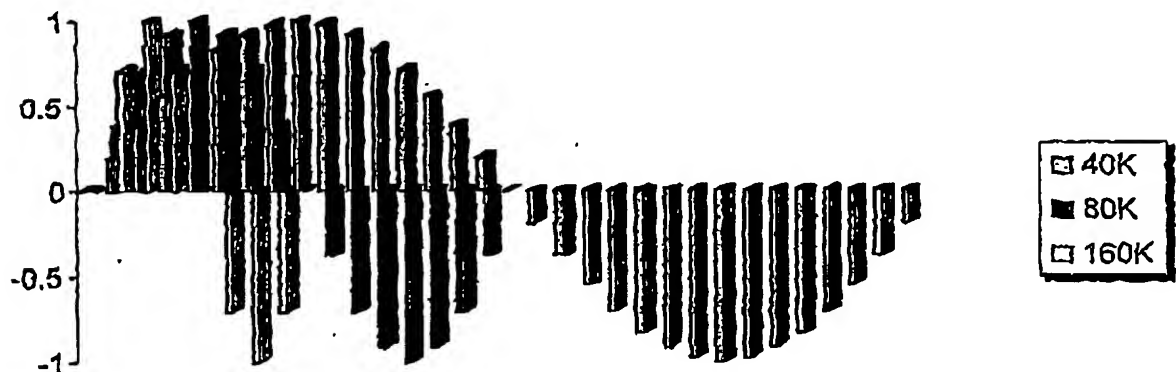


FIGURE 7

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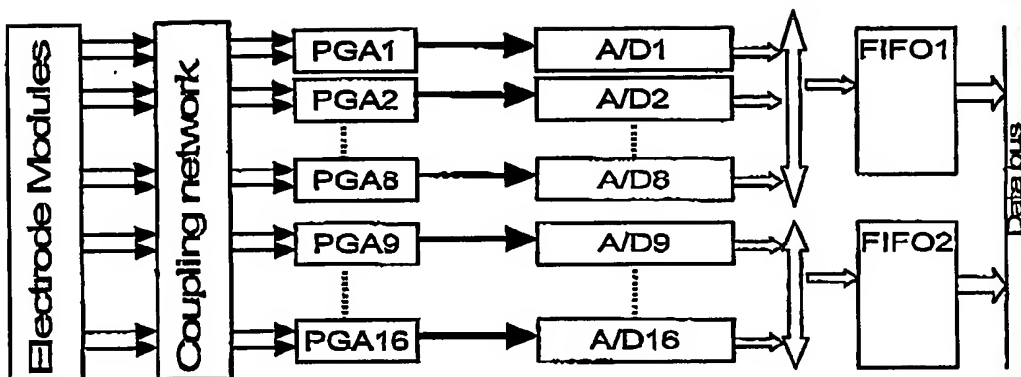


FIGURE 8

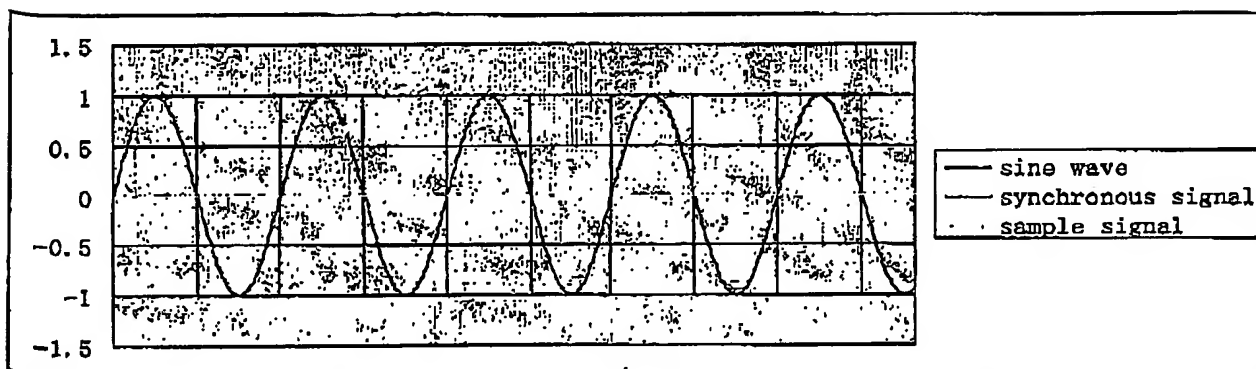
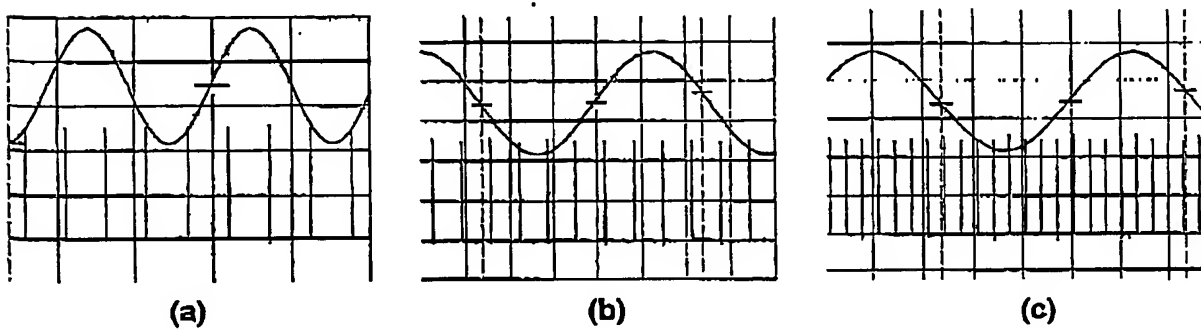


FIGURE 9

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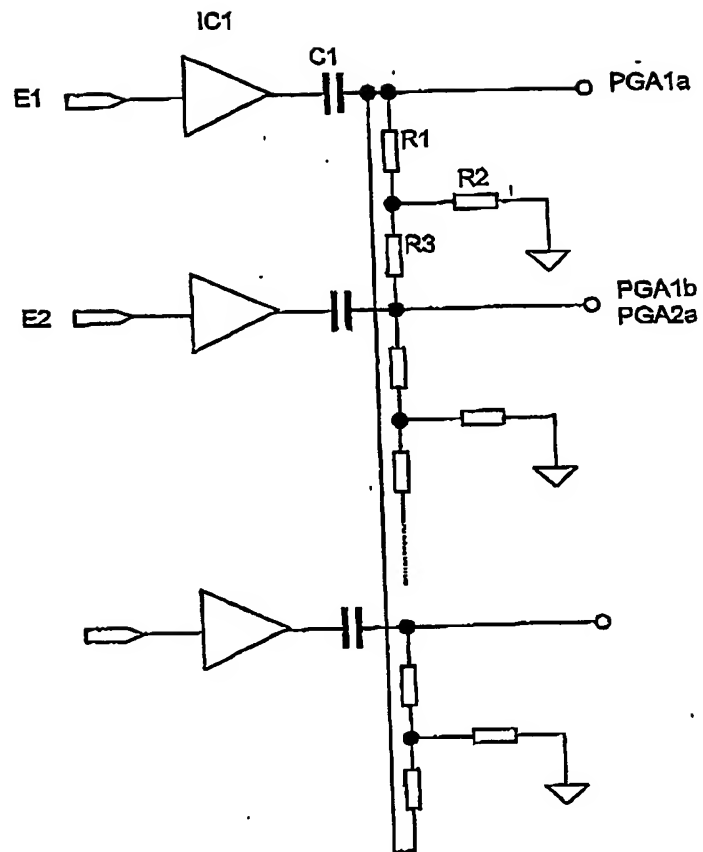


FIGURE 10

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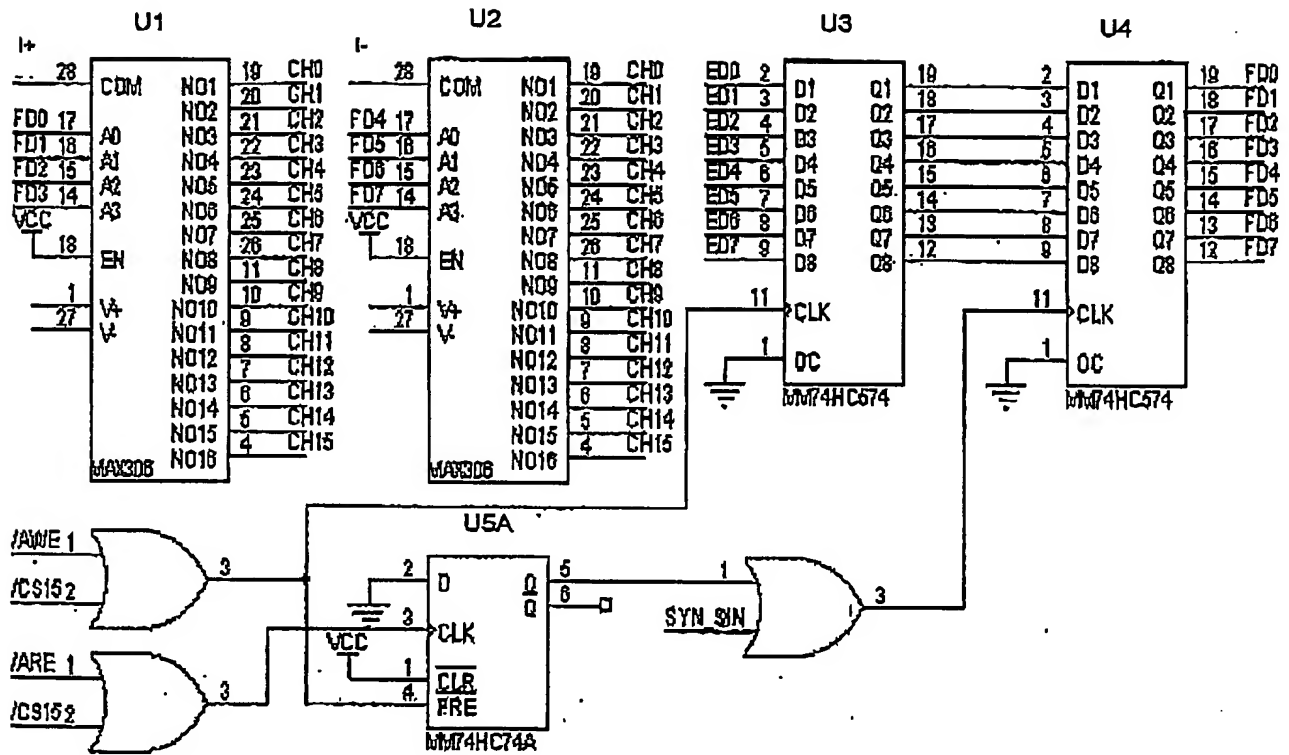


FIGURE 11

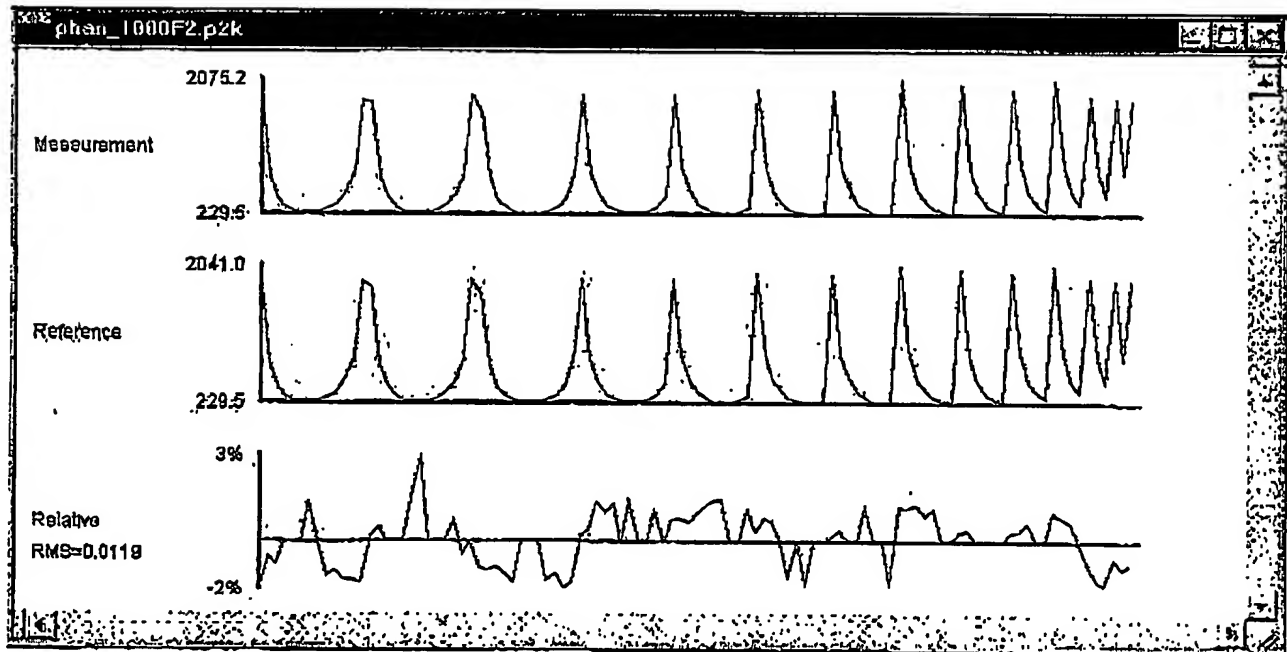


FIGURE 12

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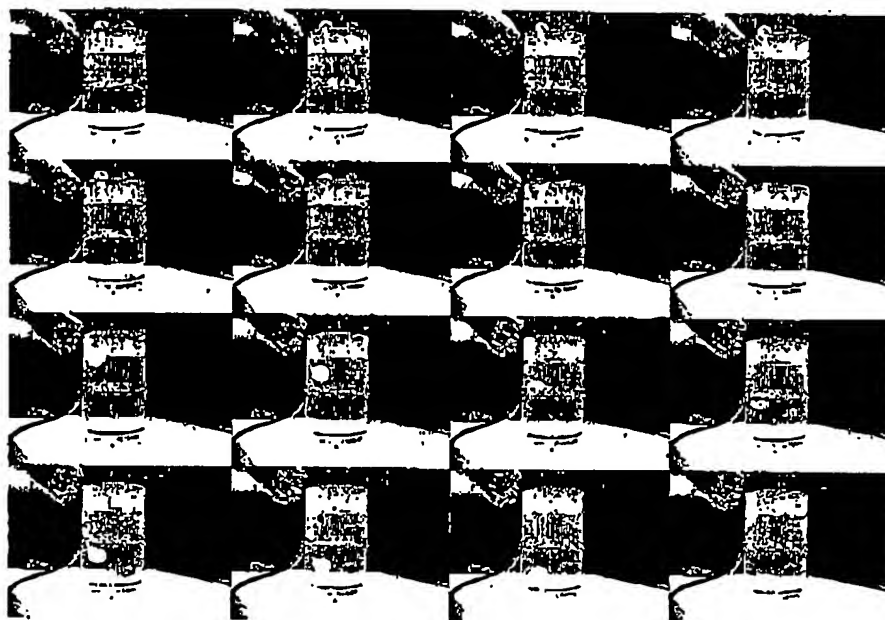


FIGURE 13



FIGURE 13b



FIGURE 13c



FIGURE 13d

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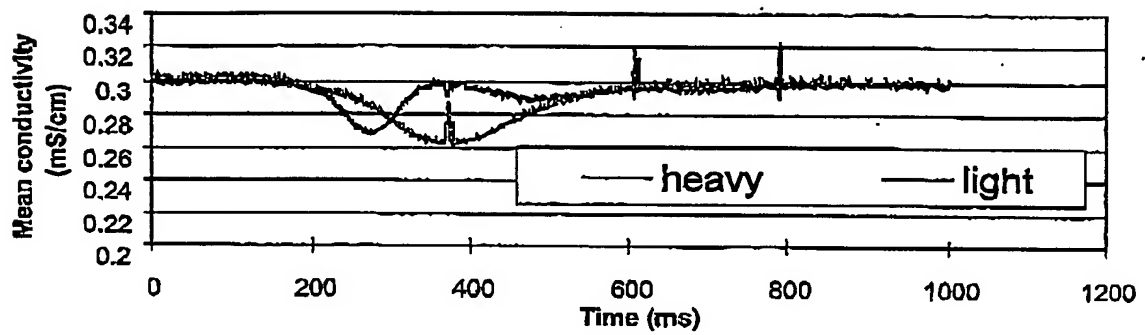


FIGURE 13e

cc curve - SH1

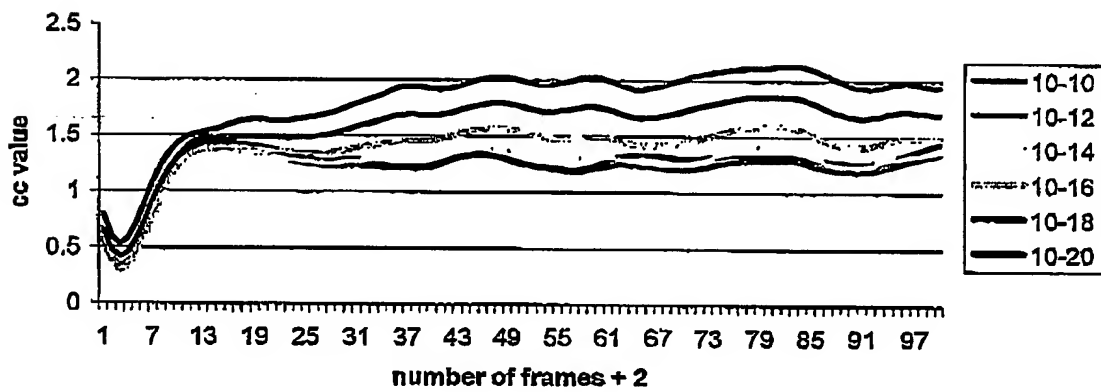
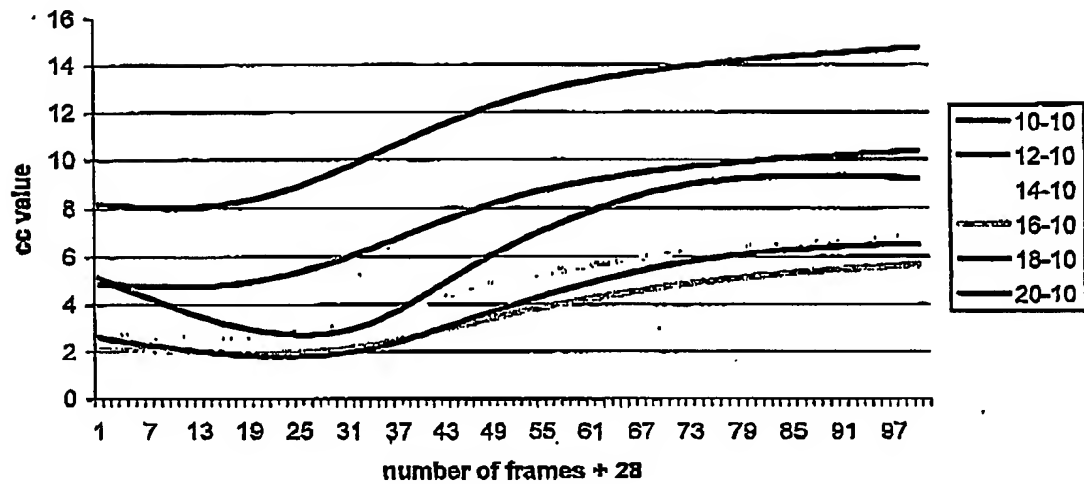
(a) Data collected from an air-water flow (SH1) at $f=134.2$ fps, $d=5$ cm

FIGURE 14(a)

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CC curve - m4



(b) Data collected from an oil-water flow (M4) at $f=914.3$ fps, $d=3$ cm.

FIGURE 14(b)

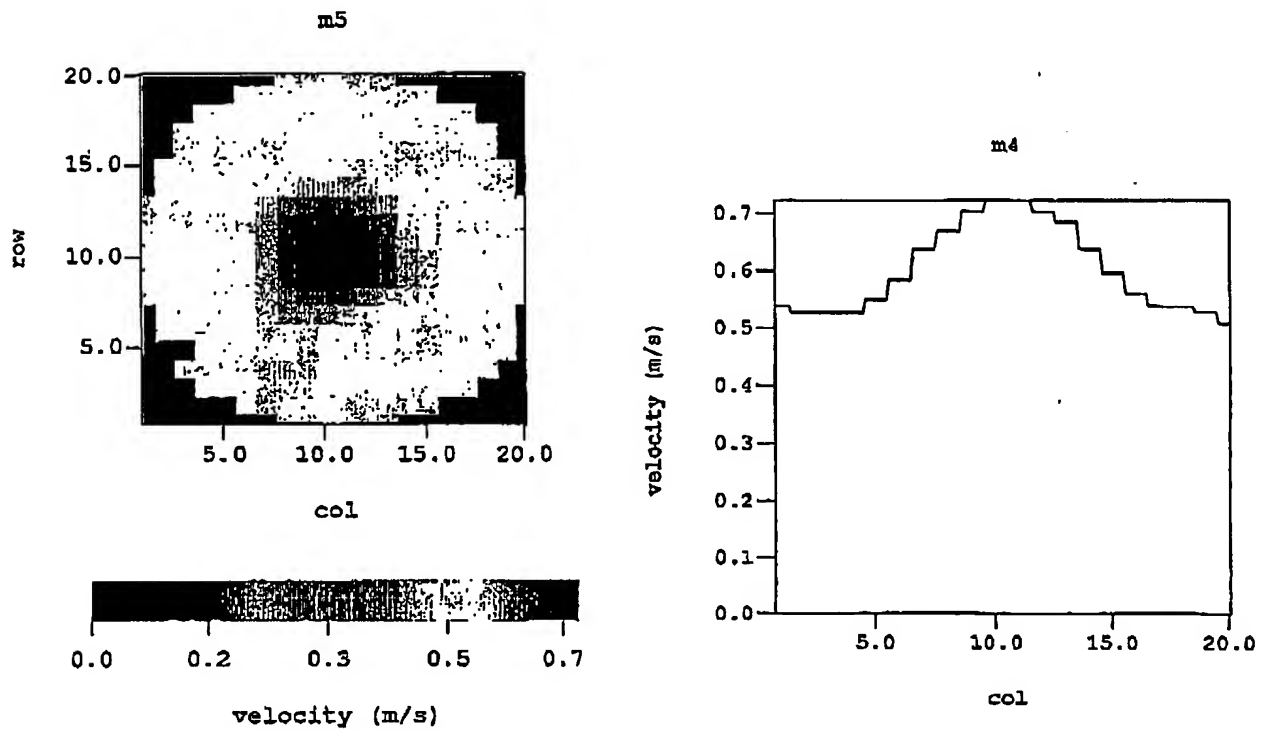
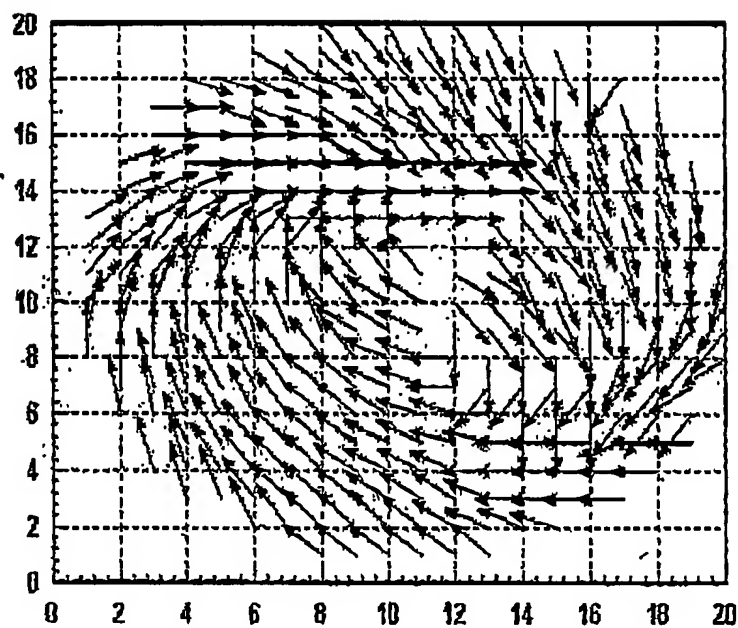
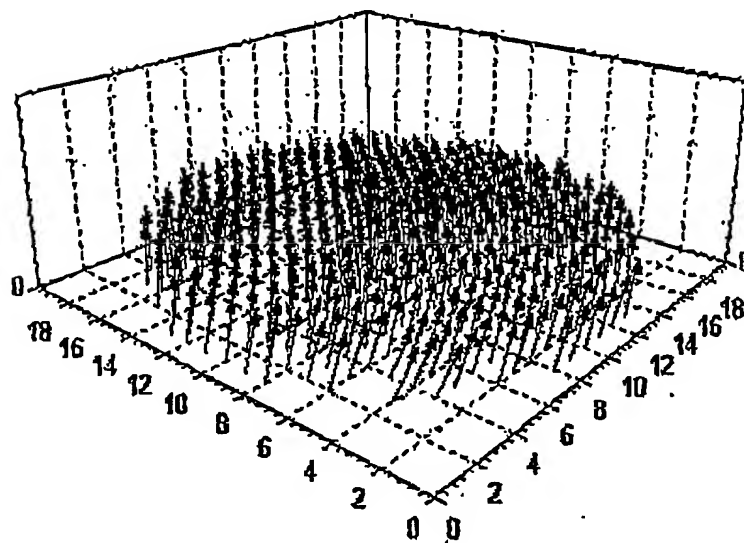


FIGURE 15

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(a)



(b)

FIGURE 16